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DATE: Monday, June 27, 2005

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		<i>DB=PGPB,USPT,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L1	(Dumoutier)[AS] AND (Renauld)[AS]	8

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☐ 1. Document ID: US 20040180399 A1

L1: Entry 1 of 8

File: DWPI

Sep 16, 2004

DERWENT-ACC-NO: 2004-661506

DERWENT-WEEK: 200464

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TITLE: New nucleic acid molecule encoding soluble IL-TIF/IL-22 binding protein, useful in treating or preventing IL-22-mediated diseases, e.g. cancer and allergies

INVENTOR: DUMOUTIER, L; RENAULD, J

PRIORITY-DATA: 2003US-0385586 (March 11, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20040180399 A1	September 16, 2004		025	C07K014/715

INT-CL (IPC): C07 H 21/04; C07 K 14/715

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw. D.
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☐ 2. Document ID: US 20040110189 A1

L1: Entry 2 of 8

File: DWPI

Jun 10, 2004

DERWENT-ACC-NO: 2004-440353

DERWENT-WEEK: 200441

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TITLE: New isolated nucleic acid molecules encoding T-cell derived inducible factors, useful for stimulating regeneration or inhibiting differentiation of targeted tissues, or for treating asthma, allergy or cancer

INVENTOR: DUMOUTIER, L; LOUAHED, J ; RENAULD, J

PRIORITY-DATA: 2000US-0751797 (December 29, 2000), 1998US-0178973 (October 26, 1998), 1999US-0354243 (July 16, 1999), 2003US-0627273 (July 25, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20040110189 A1	June 10, 2004		026	C12Q001/68

INT-CL (IPC): C07 H 21/04; C07 K 14/705; C12 Q 1/68



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 Range: from to Features: ☐ SNP ☐ CDD ☒ MGC ☐ HPRD ☐ STS

 BLINK, Domains,
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☐ 1: [Q6UXL0](#). Reports Interleukin-20 re...[gi:51701521]

LOCUS Q6UXL0 311 aa linear PRI 13-SEP-2005
 DEFINITION Interleukin-20 receptor beta chain precursor (IL-20R-beta)
 (IL-20R2).
 ACCESSION Q6UXL0
 VERSION Q6UXL0 GI:51701521
 DBSOURCE swissprot: locus I20RB_HUMAN, accession [Q6UXL0](#);
 class: standard.
 extra accessions: Q6P438, Q8TAJ7, created: Oct 25, 2004.
 sequence updated: Oct 25, 2004.
 annotation updated: Sep 13, 2005.
 xrefs: [AY358305.1](#), [AAQ88672.1](#), [BC027449.1](#), [AAH27449.1](#), [BC063696.1](#),
[AAH63696.1](#)
 xrefs (non-sequence databases): Ensembl: [ENSG00000174564](#),
 Genew: [HGNC:6004](#), MIM: [605621](#), InterPro: [IPR000282](#), InterPro: [IPR003961](#),
 InterPro: [IPR008957](#), Pfam: [PF00041](#), PROSITE: [PS50853](#)
 KEYWORDS Alternative splicing; Direct protein sequencing; Glycoprotein;
 Receptor; Repeat; Signal; Transmembrane.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Hominidae; Homo.
 REFERENCE 1 (residues 1 to 311)
 AUTHORS Clark, H.F., Gurney, A.L., Abaya, E., Baker, K., Baldwin, D., Brush, J.,
 Chen, J., Chow, B., Chui, C., Crowley, C., Currell, B., Deuel, B.,
 Dowd, P., Eaton, D., Foster, J., Grimaldi, C., Gu, Q., Hass, P.E.,
 Heldens, S., Huang, A., Kim, H.S., Klimowski, L., Jin, Y., Johnson, S.,
 Lee, J., Lewis, L., Liao, D., Mark, M., Robbie, E., Sanchez, C.,
 Schoenfeld, J., Seshagiri, S., Simmons, L., Singh, J., Smith, V.,
 Stinson, J., Vagts, A., Vandlen, R., Watanabe, C., Wieand, D., Woods, K.,
 Xie, M.H., Yansura, D., Yi, S., Yu, G., Yuan, J., Zhang, M., Zhang, Z.,
 Goddard, A., Wood, W.I., Godowski, P. and Gray, A.
 TITLE The secreted protein discovery initiative (SPDI), a large-scale
 effort to identify novel human secreted and transmembrane proteins:
 a bioinformatics assessment
 JOURNAL Genome Res. 13 (10), 2265-2270 (2003)
 PUBMED [12975309](#)
 REMARK NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORM 1).
 REFERENCE 2 (residues 1 to 311)
 AUTHORS Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
 Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
 Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
 Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F.,
 Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
 Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,

Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E., Kettelman, M., Madan, A., Rodrigues, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E., Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.

CONSRTM Mammalian Gene Collection Program Team

TITLE Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

PUBMED [12477932](#)

REMARK NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOFORMS 1 AND 2).
TISSUE=Cervix, and Skin

REFERENCE 3 (residues 1 to 311)

AUTHORS Zhang, Z. and Henzel, W.J.

TITLE Signal peptide prediction based on analysis of experimentally verified cleavage sites

JOURNAL Protein Sci. 13 (10), 2819-2824 (2004)

PUBMED [15340161](#)

REMARK PROTEIN SEQUENCE OF 30-44 (ISOFORM 1).

REFERENCE 4 (residues 1 to 311)

AUTHORS Blumberg, H., Conklin, D., Xu, W.F., Grossmann, A., Brender, T., Carollo, S., Eagan, M., Foster, D., Haldeman, B.A., Hammond, A., Haugen, H., Jelinek, L., Kelly, J.D., Madden, K., Maurer, M.F., Parrish-Novak, J., Prunkard, D., Sexson, S., Sprecher, C., Waggle, K., West, J., Whitmore, T.E., Yao, L., Kuechle, M.K., Dale, B.A. and Chandrasekhar, Y.A.

TITLE Interleukin 20: discovery, receptor identification, and role in epidermal function

JOURNAL Cell 104 (1), 9-19 (2001)

PUBMED [11163236](#)

REMARK SUBUNIT, LIGAND-BINDING, AND TISSUE SPECIFICITY.

REFERENCE 5 (residues 1 to 311)

AUTHORS Dumoutier, L., Leemans, C., Lejeune, D., Kutenko, S.V. and Renauld, J.C.

TITLE Cutting edge: STAT activation by IL-19, IL-20 and mda-7 through IL-20 receptor complexes of two types

JOURNAL J. Immunol. 167 (7), 3545-3549 (2001)

PUBMED [11564763](#)

REMARK SUBUNIT, AND LIGAND-BINDING.

REFERENCE 6 (residues 1 to 311)

AUTHORS Parrish-Novak, J., Xu, W., Brender, T., Yao, L., Jones, C., West, J., Brandt, C., Jelinek, L., Madden, K., McKernan, P.A., Foster, D.C., Jaspers, S. and Chandrasekhar, Y.A.

TITLE Interleukins 19, 20, and 24 signal through two distinct receptor complexes. Differences in receptor-ligand interactions mediate unique biological functions

JOURNAL J. Biol. Chem. 277 (49), 47517-47523 (2002)

PUBMED [12351624](#)

REMARK SUBUNIT, AND LIGAND-BINDING.

REFERENCE 7 (residues 1 to 311)

AUTHORS Pletnev, S., Magracheva, E., Kozlov, S., Tobin, G., Kutenko, S.V., Wlodawer, A. and Zdanov, A.

TITLE Characterization of the recombinant extracellular domains of human interleukin-20 receptors and their complexes with interleukin-19

and interleukin-20

JOURNAL Biochemistry 42 (43), 12617-12624 (2003)

PUBMED 14580208

REMARK SUBUNIT, AND LIGAND-BINDING.

COMMENT [FUNCTION] The IL20RA/IL20RB dimer is a receptor for IL19, IL20 and IL24. The IL22RA1/IL20RB dimer is a receptor for IL20 and IL24. [SUBUNIT] Heterodimer with IL20RA and heterodimer with IL22RA1. [SUBCELLULAR LOCATION] Type I membrane protein (By similarity). [ALTERNATIVE PRODUCTS] Event=Alternative splicing; Named isoforms=2; Name=1; IsoId=Q6UXL0-1; Sequence=Displayed; Name=2; IsoId=Q6UXL0-2; Sequence=VSP_011499, VSP_011500. [TISSUE SPECIFICITY] Widely expressed with highest levels in skin and testis. Highly expressed in psoriatic skin. [SIMILARITY] Belongs to the type II cytokine receptor family. [SIMILARITY] Contains 2 fibronectin type-III domains.

FEATURES

	Location/Qualifiers
source	1..311 /organism="Homo sapiens" /db_xref="taxon:9606"
gene	1..311 /gene="IL20RB" /locus_tag="UNQ557/PRO1114" /note="synonym: DIRS1"
Protein	1..311 /gene="IL20RB" /locus_tag="UNQ557/PRO1114" /product="Interleukin-20 receptor beta chain precursor"
Region	1..47 /gene="IL20RB" /locus_tag="UNQ557/PRO1114" /region_name="Splicing variant" /note="Missing (in isoform 2 and isoform 3)." /FTId=VSP_011499." /evidence=experimental
Region	1..29 /gene="IL20RB" /locus_tag="UNQ557/PRO1114" /region_name="Signal" /evidence=experimental
Region	30..311 /gene="IL20RB" /locus_tag="UNQ557/PRO1114" /region_name="Mature chain" /note="Interleukin-20 receptor beta chain." /evidence=experimental
Region	36..137 /gene="IL20RB" /locus_tag="UNQ557/PRO1114" /region_name="Domain" /note="Fibronectin type-III 1." /evidence=experimental
Site	40 /gene="IL20RB" /locus_tag="UNQ557/PRO1114" /site_type="glycosylation" /note="N-linked (GlcNAc...) (Potential)." /evidence=not_experimental
Region	48..142 /gene="IL20RB" /locus_tag="UNQ557/PRO1114"

Site /region_name="Splicing variant"
/note="Missing (in isoform 2). /FTId=VSP_011500."
/evidence=experimental
134
/gene="IL20RB"
/locus_tag="UNQ557/PRO1114"
/site_type="glycosylation"
/note="N-linked (GlcNAc...) (Potential)."
/evidence=not_experimental

Region 144..228
/gene="IL20RB"
/locus_tag="UNQ557/PRO1114"
/region_name="Domain"
/note="Fibronectin type-III 2."
/evidence=experimental

Bond bond(202,223)
/gene="IL20RB"
/locus_tag="UNQ557/PRO1114"
/bond_type="disulfide"
/note="By similarity."
/evidence=not_experimental

Region 234..254
/gene="IL20RB"
/locus_tag="UNQ557/PRO1114"
/region_name="Transmembrane region"
/note="Potential."
/evidence=not_experimental

ORIGIN

```
1  mgtftmvlee iwtslfmwff yalipclltd evailpapqn lsvlstnmkh llmwspviap
61  getvyysvey qgeyeslyts hiwipsswcs ltegepcdvt dditatvpyn lrvratlgsq
121 tsawsilkhf fnrnstiltr pgmeitkgdf hlvielldg pqfeylvayw rrepgaehev
181 kmvrsggipv hletmepgaa ycvkaqtfvk aigrysafsq tecvevqgea iplvlalfaf
241 vgfmlilvvv plfvwkmgrl lqysccpvvv lpdtkitns pqkliscrre evdacatavm
301 speellrawi s
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Feb 9 2005 14:31:10